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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/055,000		01/25/2002	Kunihiro Tanaka	100341-00019	7670
4372	7590	03/31/2004		EXAMINER	
	_	INER PLOTKIN	LEE, I	LEE, PING	
1050 CONNECTICUT AVENUE, N.W. SUITE 400				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036				2644	5
				DATE MAILED: 03/31/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
· Office Action Summary	10/055,000	TANAKA, KUNIHIRO					
Office Action Summary	Examiner	Art Unit					
The MAILING DATE of this communication and	Ping Lee	2644					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowar	Responsive to communication(s) filed on <u>01 August 2003</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,6 and 7 is/are rejected. 7) Claim(s) 3-5 and 8 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa						

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DETAILED ACTION

Claim Objections

1. Claims 1-8 are objected to because of the following informalities: the preamble of claim 1 is confusing. Based on Fig. 1 of the original specification as filed, the RF transmitter (10) is attached to a microphone (100). This microphone (100) has a first jack for supply power to another microphone (200) and a second jack for outputting an audio signal (to 10). However, the preamble implies that there are three microphones for the complete system. For examination purpose, the phrase "which is connected to a microphone" have been disregarded. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 6 and 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 6, "said microphone" lacks clear antecedent basis. It is unclear which microphone it is being referred to.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sawa et al (US 5,054,115).

Regarding claim 1, Sawa et al (hereafter Sawa) shows an RF transmitter (6) for being attached to microphone (75) having a first connection (83) capable of supplying power to another microphone (63) and a second connection (81,82,83) for outputting an audio signal, comprising a modulation means (700) and transmitting means (9). Sawa fails to show the first connecting plug inserted into the first jack and the second connecting plug inserted into the second jack. Sawa teaches a coaxial cable with 4core or 6-core cable. By using the single coaxial cable, Sawa's transmitter has only one plug instead of two. However, one skilled in the art would have expected that using more than one plug for providing power connection and audio signal connection separately would provide same result. Using two separate cables would allow the user to easily detect the malfunction in a particular line and replacing that single cable; whereas the coaxial cable should be replaced regardless the particular cable. Thus, it would have been obvious to one of ordinary skill in the art to modify Sawa's transmitter and microphone by having separate electric connections for transmitting power and audio signal in separate paths in order to easily detect the malfunction between the signal paths and to provide a lower cost replacement.

Regarding claim 2, although not explicitly shown, frequency modulation is inherently being used.

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Allowable Subject Matter

- 6. Claims 3-5 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 6 and 7 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ping Lee whose telephone number is 703-305-4865. The examiner can normally be reached on Monday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mary Examiner

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